

1 (c) storing data representative of a time of occurrence of each event;

2 (d) analyzing the data to classify segments of the video signal between events as

3 one of a first and second category;

4 (e) positioning the recording medium to beginning and ending positions of each

5 segment of the video signal classified as the second category;

6 (f) marking the recording medium with a second type of mark in predetermined

7 relationship to a corresponding first type of mark at each of said beginning

8 positions;

9 (g) marking the recording medium with a third type of mark in predetermined

10 relationship to a corresponding first type of mark at each of said ending

11 positions.

12 16. (Amended) A method of cueing a pre-recorded video tape to a desired
13 segment comprising the steps of:

14 (a) rewinding the tape to the beginning of the tape;

15 (b) advancing the tape;

16 (c) monitoring the video signal recorded on the tape as it is advanced to automatically
17 detect events therein, each of said events occurring within viewable lines of a video
18 frame;

19 (d) storing data representative of a time of occurrence of each event;

20 (e) analyzing the data to classify one such event as marking the beginning of the
21 desired segment; and;

22 (f) rewinding the tape to said event classified as marking the beginning of the desired
23 segment.

Please add the following new claims 19-39:

1 --19. A method of automatically cueing a pre-recorded video tape to a program segment
2 comprising the steps of:

3 (a) moving the video tape at a speed faster than a normal play speed;
4 (b) monitoring a video signal recorded on the video tape as it is moved to automatically
5 detect an event therein associated with the program segment, said event occurring
6 within viewable lines of a video frame;
7 (c) playing the video tape at a normal play speed beginning at a position corresponding
8 to said event in the video signal associated with the program segment.

1 20. The method of claim 19 wherein the video tape is moved in a forward direction at a
2 speed faster than a normal play speed.

1 21. The method of claim 19 wherein the step of monitoring the video signal includes
2 gating the video signal to exclude noise bars.

1 22. The method of claim 19 wherein the step of monitoring a video signal comprises
2 detecting a plurality of events in the video signal and measuring a time interval between successive
3 detected events.

1 23. The method of claim 22 wherein the event associated with the program segment is
2 determined as a latest of the plurality of detected events for which there is no successive detected
3 event occurring within a predetermined period of time thereafter.

1 24. The method of claim 23 further comprising the step, after detecting the event
2 associated with the program segment, of reversing the video tape to the position corresponding to
3 said event associated with the program segment.

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1 25. An apparatus for automatically cueing a pre-recorded video tape to a program
2 segment comprising:

3 (a) means for moving the video tape at a speed faster than a normal play speed;

4 (b) means for monitoring a video signal recorded on the video tape as it is moved to

5 automatically detect an event therein associated with the program segment, said

6 event occurring within viewable lines of a video frame;

7 (c) means for playing the video tape at a normal play speed beginning at a position

8 corresponding to said event in the video signal associated with the program

9 segment.

1 26. The apparatus of claim 25 wherein the video tape is moved in a forward direction at
2 a speed faster than a normal play speed.

1 27. The apparatus of claim 25 further comprising means for gating the video signal to
2 exclude noise bars.

1 28. The apparatus of claim 25 wherein the means for monitoring a video signal
2 comprises means for detecting a plurality of events in the video signal and means for measuring a
3 time interval between successive detected events.

1 29. The apparatus of claim 26 further comprising means for reversing the video tape to
2 the position corresponding to said event associated with the program segment.

1 30. A method of automatically cueing a pre-recorded video tape to a program segment
2 comprising the steps of:

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- 3 (a) advancing the video tape;
- 4 (b) monitoring a video signal recorded on the video tape as it is advanced to
5 automatically detect events therein, each of said events occurring within viewable
6 lines of a video frame;
- 7 (c) storing data representative of a time of occurrence of a detected event associated
8 with the program segment;
- 9 (d) reversing the video tape to a position corresponding to the time of occurrence of the
10 detected event associated with the program segment.

1 31. The method of claim 30 wherein the video tape is advanced at a speed faster than a
2 normal play speed.

1 32. The method of claim 31 wherein the step of monitoring the video signal includes
2 gating the video signal to exclude noise bars.

1 33. The method of claim 30 wherein the step of storing data comprises storing data
2 representative of a time of occurrence of each of a plurality of detected events in the video signal.

1 34. The method of claim 33 wherein the event associated with the program segment is
2 determined as a latest of the plurality of detected events for which there is no successive detected
3 event occurring within a predetermined period of time thereafter.

1 35. An apparatus for automatically cueing a pre-recorded video tape to a program
2 segment comprising:

3 (a) means for advancing the video tape;
4 (b) means for monitoring a video signal recorded on the video tape as it is advanced to
5 automatically detect events therein, each of said events occurring within viewable
6 lines of a video frame;
7 (c) means for storing data representative of a time of occurrence of a detected event
8 associated with the program segment;
9 (d) means for reversing the video tape to a position corresponding to the time of
10 occurrence of the detected event associated with the program segment.

1 36. The apparatus of claim 35 wherein the video tape is advanced at a speed faster than
2 a normal play speed.

1 37. The apparatus of claim 36 further comprising means for gating the video signal to
2 exclude noise bars.

1 38. The system of claim 15 wherein the first, second and third types of mark are each
2 distinct from the others.

1 39. The system of claim 38 wherein each of the first, second and third types of mark
2 are recorded on a control track of the recording medium. --

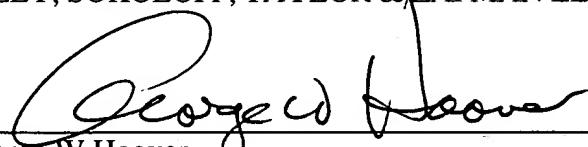
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Respectfully submitted,

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